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The revisions and additions bring the work down to the present date. In dynamical geology, Croll's and Thompson's theories of glacier motion have been added. In the part on structural geology the chapter on igneous rocks has been entirely rewritten and greatly enlarged. Under vertebrate palæontology the author has failed to notice the greater number of modern additions to the science, and has apparently confined himself to but one source of information, and that not the best. He says "I have added the most important results of the investigations of King in regard to the tertiary and quaternary lakes of the Rocky Mountain region; and of Chamberlain, Upham and others, in regard to the ice-sheet moraine. I have also given somewhat fully Croll's theory of the climate of the glacial epoch, and Wallace's modification of the same. These changes have involved the addition of many new figures." Among them is a wood-cut of the Berlin Archæopteryx.

We meet with the following statement on p. 324, which needs revision at the present date. "According to Agassiz, we know more of the development of trilobites than of any living Crustacean." On p. 399, in enumerating the Crustacean fauna of the Carboniferous, the discovery, a few years ago in Belgium, of a genuine crab (*Brachypyge carbonis*, Woodward) is overlooked. The discovery by Mr. Whitfield of a genuine Devonian shrimp (*Palæopalæmon newberryi* Whitf.) was also worthy of mention. Under the head of theories of coral reefs reference might have been made to Semper's and also to Mosely's theories.

ZITTEL'S HAND-BOOK OF PALÆONTOLOGY.¹—As we have stated in noticing the earlier parts of this work, it is the most comprehensive, compact and valuable manual of the subject to be had, and has sufficiently frequent references to and figures of American fossils. This part embraces the univalves or Cephalophora, for which the author prefers the name Glossophora. Whatever we call them, this will prove one of the most useful parts of this important work, which we are purchasing for our own use, and find so thoroughly well prepared and illustrated that we earnestly recommend it to our readers as an indispensable book of reference. The wood-cuts are excellent.

DAVIS' GLACIAL EROSION.²—This is a very readable and convenient summary of the opinions of geologists as to the actual effects of glaciers in remolding the earth's surface. It would appear that this department of geology is peculiarly inexact as a

¹*Handbuch der Palæontologie.* Herausgegeben von KARL A. ZITTEL. 1 Band. 2 Abtheilung, 11 Lieferung mit 265 original-holzschnitten. Preis marks 7. München u. Leipzig, 1882. 8vo. R. OLDENBOURG.

²*Glacial Erosion.* By W. M. DAVIS. Read before the Boston Society of Natural History, etc. Boston, 1882. 8vo., pp. 37.